UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

## NOTICE OF ALLOWANCE AND FEE(S) DUE

020457

7590

02/23/2004

ANTONELLI, TERRY, STOUT & KRAUS, LLP 1300 NORTH SEVENTEENTH STREET SUITE 1800 ARLINGTON, VA 22209-9889 EXAMINER
OWENS, DOUGLAS W

ART UNIT PAPER NUMBER

2811

DATE MAILED: 02/23/2004

APPLICATION NO.	TION NO. FILING DATE FIRST NAMED INVENTOR		ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/708,450	11/09/2000	YOSHITAKA NAKAMURA	501.39149X00	2432

TITLE OF INVENTION: SEMICONDUCTOR INTEGRATED CIRCUIT DEVICE HAVING SPACED-APART ELECTRODES AND THE METHOD THEREOF

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE	
nonprovisional	NO	\$1330	\$0	\$1330	05/24/2004	

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

- A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.
- B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

#### PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450

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INSTRUCTIONS: This for appropriate. All further cor indicated unless corrected by maintenance fee notification	selow or directed otherwise	esmitting the ISSU Patent, advance or in Block 1, by (a)	or J E FEE and l ders and noti ) specifying a	PUBLIC	(703) 746-4000 ATION FEE (if requois maintenance fees vorrespondence address	ired). Blocks 1 through 4 swill be mailed to the current; and/or (b) indicating a separate	hould be completed wher correspondence address a arate "FEE ADDRESS" fo
CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corr  020457 7590 02/23/2004  ANTONELLI, TERRY, STOUT & KRAUS, I 1300 NORTH SEVENTEENTH STREET SUITE 1800 ARLINGTON, VA 22209-9889			,		Note: A certificate of mailing can only be used for domestic mailings of t Fee(s) Transmittal. This certificate cannot be used for any other accompanyi papers. Each additional paper, such as an assignment or formal drawing, me have its own certificate of mailing or transmission.  Certificate of Mailing or Transmission  I hereby certify that this Fee(s) Transmittal is being deposited with the Unit States Postal Service with sufficient postage for first class mail in an envelo addressed to the Mail Stop ISSUE FEE address above, or being facsim transmitted to the USPTO, on the date indicated below.  (Depositor's nam		
							(Signature
							(Date
APPLICATION NO.	FILING DATE	1	FIRST NAMEI	D INVEN	TOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/708,450 TITLE OF INVENTION: SI	11/09/2000 EMICONDUCTOR INTEG		OSHITAKA DEVICE HA			501.39149X00 ECTRODES AND THE MET	2432 THOD THEREOF
APPLN. TYPE	SMALL ENTITY	ISSUE FI	3E	PU	BLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
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EXAM	INER	ART UN	ART UNIT (		ASS-SUBCLASS	]	
OWENS, DO	DUGLAS W	2811			438-240000	-	
Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).      Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.      "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.  3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON			2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.  HE PATENT (print or type)				
PLEASE NOTE: Unless	an assignee is identified be d to the USPTO or is being	low, no assignee da submitted under sep	ata will appea parate cover.	ar on the Complet	patent. Inclusion of a	ssignee data is only appropri T a substitute for filing an ass UNTRY)	ate when an assignment ha ignment.
Please check the appropriate	assignee category or category	ories (will not be pri	inted on the p	atent);	🗆 individual 🗀	corporation or other private g	roup entity 🚨 governmer
4a. The following fee(s) are	enclosed:	4b	. Payment of	Fee(s):			
☐ Issue Fee			☐ A check in	n the am	ount of the fee(s) is en	closed.	
☐ Publication Fee			-	-	card. Form PTO-2038		
☐ Advance Order - # of	Copies		The Direct Deposit Acc	ctor is h ount Nu	ereby authorized by c	harge the required fee(s), or (enclose an extra of	credit any overpayment, topy of this form).
Director for Patents is reque	sted to apply the Issue Fee a	and Publication Fee	(if any) or to	re-apply	any previously paid i	ssue fee to the application ide	<del></del>
(Authorized Signature)	- <u> </u>	(Date)				· · · · · · · · · · · · · · · · · · ·	
other than the applicant; interest as shown by the re	d Publication Fee (if require a registered attorney or agoords of the United States P tion is required by 37 CFR by the public which is to	ent; or the assigne atent and Trademar	e or other p k Office.	arty in			

obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Alexandria, Virginia 22313-1450.

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### United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450

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09/708,450	11/09/2000	YOSHITAKA NAKAMURA	MURA 501.39149X00		
020457 75	90 02/23/2004	EXAMINER OWENS, DOUGLAS W			
,	ERRY, STOUT & KRAU				
1300 NORTH SEV SUITE 1800	ENTEENTH STREET		ART UNIT	PAPER NUMBER	
ARLINGTON, VA 22209-9889			2811		

DATE MAILED: 02/23/2004

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

	Application No.	Applicant(s)					
	09/708,450	NAKAMURA ET AL.					
Notice of Allowability	Examiner	Art Unit					
	Douglas W Owens	2811					
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this apply or other appropriate communication IGHTS. This application is subject to	plication. If not included will be mailed in due course. <b>THIS</b>					
1. X This communication is responsive to the amendment filed							
2. The allowed claim(s) is/are 20-22,24-26,28,29,32-34,36 ar	<u>nd 37</u> .						
3. $\boxtimes$ The drawings filed on <u>09 November 2000</u> are accepted by		,					
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) ☐ All b) ☐ Some* c) ☐ None of the:							
<ol> <li>Certified copies of the priority documents have</li> </ol>	e been received.						
<ol><li>Certified copies of the priority documents have</li></ol>	e been received in Application No	•					
<ol><li>Copies of the certified copies of the priority do</li></ol>	cuments have been received in this	national stage application from the					
International Bureau (PCT Rule 17.2(a)).							
* Certified copies not received:							
5. Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.							
<ul> <li>(a) ☐ The translation of the foreign language provisional application has been received.</li> <li>6. ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included</li> </ul>							
in the first sentence of the specification or in an Application	n Data Sheet. 37 CFR 1.78.						
Applicant has THREE MONTHS FROM THE "MAILING DATE" of below. Failure to timely comply will result in ABANDONMENT of	f this communication to file a reply co this application. THIS THREE-MOI	omplying with the requirements noted NTH PERIOD IS NOT EXTENDABLE.					
7. A SUBSTITUTE OATH OR DECLARATION must be subminformal PATENT APPLICATION (PTO-152) which give							
8. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.  (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached							
1) ☐ hereto or 2) ☐ to Paper No  (b) ☐ including changes required by the proposed drawing correction filed, which has been approved by the Examiner.							
(c) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No							
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t							
9. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.							
Attachment(s)							
1 ☐ Notice of References Cited (PTO-892)	5☐ Notice of Informal Pa	tent Application (PTO-152)					
2  Notice of Draftperson's Patent Drawing Review (PTO-948)	6∐ Interview Summary (	PTO-413), Paper No					
3 Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No	3), 7⊠ Examiner's Amendm	ent/Comment					
4 Examiner's Comment Regarding Requirement for Deposit of Biological Material	8∐ Examiner's Statemer 9∐ Other .	nt of Reasons for Allowance					
		EDDIE LEE					
		SORY PATENT EXAMINER NOLOGY CENTER 2800					

Art Unit: 2811

### **DETAILED ACTION**

#### **EXAMINER'S AMENDMENT**

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows: in line 8 of claim 29, delete "th " and insert --the--; and

in line 8 of claim 29, delete "s cond" and insert -- second --.

## Allowable Subject Matter

2. Claims 20 – 22, 24 – 26, 28, 29, 32 – 34, 36 and 37 are allowed.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Douglas W Owens whose telephone number is 703-308-6167. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eddie C Lee can be reached on 703-308-1690. The fax phone number for the organization where this application or proceeding is assigned is 703-308-7722.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-3900.

SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2800 Application/Control Number: 09/708,450

Art Unit: 2811

DWO

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